PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: Cheng et al.

CASE NO.: CL2346 US NA

APPLICATION NO.: 10/804,677

GROUP ART UNIT: UNKNOWN

FILED: MARCH 19, 2004

EXAMINER: UNKNOWN

FOR: GENES ENCODING CAROTENOID COMPOUNDS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A and PTO/SB/08B. A copy of the information is also enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

S. NEIL FELTHAM

Attorney for Applicant(s)
Registration No. 36,506
Telephone: (302) 992-6460

Telephone: (302) 992-6460 Facsimile: (302) 892-7949

Dated:

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

Complete if Known					
Application Number	10/804,677				
Filing Date	March 19, 2004				
First Named Inventor	Cheng et al.				
Group Art Unit	Unknown				
Examiner Name	Unknown				
Attorney Docket Number	CL2346 US NA				

	U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No.1	Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		5,656,472	Amoco Corp.	08/12/1997			
		5,545,816	Ausich et al.	08/13/1996			
		5,530,189	Ausich et al.	06/25/1996			
		5,530,188	Ausich et al.	06/25/1996			
		5,429,939	Kamura et al.	01/16/1996			
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	FOREIGN PATENT DOCUMENTS							
Examiner	Cite	For	oreign Patent Document		Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Office ³		nd Code ⁵ f known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ₆
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Substitut	e for form 1449A/PTC)			Complete if Known
				Application Number	10/804,677
INFORMATION DISCLOSURE				Filing Date	March 19, 2004
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Cheng et al.
				Group Art Unit	Unknown
	(use as many she	ets as	necessary)	Examiner Name	Unknown
Sheet	21	of	2	Attorney Docket Number	CL2346 US NA

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Nelis and Leenheer, Microbial sources of carotenoid pigments used in foods and feeds, Appl. Bacteriol. 70: pp. 181-191, 1991	
		Misawa and Shimada Metabolic engineering for the production of carotenoids in non-carotenogenic bacteria and yeasts, J. Biotech. Vol. 59:pp. 169-181, 1998	
		Dye et al., A Taxonomic Study of The Genus Erwinia, New Zealand Journal of Science, Vol. 12: pp. 81-97, 1969	
		Dye et al., A Taxonomic Study of the Genus Erwinia, New Zealand Journal of Science Vol. 11: pp. 590-607, 1968	
		Dye et al., A Taxonomic Study of the Genus Erwinia, New Zealand Journal of Science, Vol. 12: pp. 223-236, 1969	
		Dye et al., A Taxonomic Study of The Genus Erwinia, New Zealand Journal of Science. Vol. 12: 833-839, 1969	
		Kwon et al., Phylogenetic Analysis of Erwinia Species Based on 16S rRNA Gene Sequences, Inter. J. System. Bacteriol. 47(4): pp. 1061-1067, 1997	
		Hauben et al., Phylogenetic Position of Phytopathogens within the Enterobacteriaceae, Syst. Appl. Microbiol. 21(3),: pp. 384-397, Aug. 1998	
		G. Armstrong, Eubacteria Show Their True Colors: Genetics of Carotenoid Pigments Biosynthesis from Microbes to Plants, J. Bact. 176: 4795-4802, 1994	
		Armstrong, Genetics of Eubacterial Carotenoid Biosynthesis: A Colorful Tale, Annu. Rev. Microbiol. 51: pp. 629-659, 1997	
		GenBank Accession No. M87280, April 11, 2001, Pantoea agglomerans	
		GenBank AccessionNo. D90087, August 24, 2002, Pantoea ananatis	
		GenBank Accession No. AY166713, December 18, 2002, Pantoea stweartii	
		GenBank Accession No. AB076662December 26, 2001, Pantoea agglomerans	

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